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Relevance scale **1 Improving bandwidth efficiency in fault-tolerant opaque IP over optical mesh networks**

Anandkrishna Parameswaran, Miguel A. Labrador, Ibrahim Habib, Wilfrido A. Moreno

January 2004 **International Journal of Network Management**, Volume 14 Issue 1Full text available:  pdf(120.70 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Adequately providing fault tolerance while using network capacity efficiently is a major topic of research in optical networks. In order to improve the network utilization, grooming of low-rate connections in optical networks has been usually performed at the edge of the network. However, in all-optical networks once a channel is assigned, its entire capacity is dedicated to the users independently of its grooming capabilities. As current users don't usually require such big capacities, bandwidth ...

2 Measuring ISP topologies with rocketfuel

Neil Spring, Ratul Mahajan, David Wetherall, Thomas Anderson

February 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 1Full text available:  pdf(732.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

To date, realistic ISP topologies have not been accessible to the research community, leaving work that depends on topology on an uncertain footing. In this paper, we present new Internet mapping techniques that have enabled us to measure router-level ISP topologies. Our techniques reduce the number of required traces compared to a brute-force, all-to-all approach by three orders of magnitude without a significant loss in accuracy. They include the use of BGP routing tables to focus the measurement ...

Keywords: communication system operations and management, internet, measurement, network reliability

3 Performance: A QoS service for IP video applications on demand over DTM

Cláudia J. Barenco, Arturo Azcorra Saloña, José Ignacio Moreno

April 2001 **ACM SIGCOMM Computer Communication Review**, Volume 31 Issue 2 supplementFull text available:  pdf(2.26 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

The Differentiated Services model (DiffServ) provides a great flexibility in defining a variety of services through PHBs (*Per Hop Behaviors*) and traffic conditioners. It fits in well with the Integrated Services model (IntServ), jointly offering features such as: QoS signaling; admission control; channel management; assignment of resources (buffer and bandwidth);



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John Colter, Netscape Navigator

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